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## *Curriculum Vitae*

### **Wei XIE (颢 炜)**

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### **RESEARCH INTERESTS:**

- Basaltic magmatism in Lau Basin, SW Pacific Ocean. One of my recent studies is Tonga-Kermadec back-arc basaltic magma for studying trace element recycling and mantle flow in subduction zones. I have some valuable samples from Valu Fa Ridge (VFR) and Central Eastern Lau Spreading Center (CELSC), and know Tonga-Lau arc-basin system very well.
- Carboniferous magmatism of ancient trench-arc-basin system at the southern margin of the Central Asian Orogenic Belt.
- Genesis of subduction-related magmatic Ni-Cu-(PGE) sulfide deposit at the southern margin of the Central Asian Orogenic Belt.

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### **EDUCATIONAL AND EMPLOYMENT HISTORY:**

- 2016.7-Present: Associate professor, College of Oceanography, Hohai University, Nanjing.
- 2016.7-Present: Visiting associate research fellow, Guangzhou Institute of Geochemistry, Chinese Academy of Sciences, Guangzhou.
- 2012.7-2016.6: Postdoctoral researcher, Guangzhou Institute of Geochemistry, Chinese Academy of Sciences, Guangzhou.
- 2007.9-2012.6: Ph.D candidate; Institute of Geochemistry, Chinese Academy of Sciences, Guiyang.
- 2003.9-2007.6: B.S.; Faculty of Earth Sciences, China University of Geosciences, Wuhan.

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### **AWARDS AND SCHOLARSHIPS:**

- 2013 The 54nd Batch Postdoctoral Fund awarded by the China Postdoctoral Science Foundation
- 2012 Chu Yuet Wah Award for Outstanding Ph.D Candidates, Chinese Academy of Sciences

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- 2012 Pacemaker to Merit Student Medal, Chinese Academy of Sciences
- 2010 Excellent Student Cadre Medal, Chinese Academy of Sciences
- 2010 Merit Student Medal, Chinese Academy of Sciences
- 2008 Merit Student Medal, Chinese Academy of Sciences
- 2006 First-prize of Renmin Scholarship, China University of Geosciences, Wuhan
- 2004 First-prize of Renmin Scholarship, China University of Geosciences, Wuhan

#### **MAIN ACADEMIC ACTIVITIES:**

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- 2013.12 The 6<sup>th</sup> National Metallogenic Theory and Prospecting Method Academic Seminar (China), Guilin, China; **Oral presentation.**
- 2013.4 The 14<sup>th</sup> Annual Conference of the Chinese Society for Mineralogy, Petrology and Geochemistry, Nanjing, China; **Oral presentation.**
- 2012.6 The 12<sup>th</sup> International Ni-Cu-(PGE) Symposium, Guiyang, China; **Oral presentation.**
- 2011.12 The 5<sup>th</sup> National Metallogenic Theory and Prospecting Method Academic Seminar (China), Kunming, China; **Oral presentation.**

#### **RESEARCH PROJECTS:**

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- 2016-2018 Petrogenesis and tectonic setting of the Permian shoshonitic rocks in the Kyrgyz North Tianshan, funded by the Natural Science Foundation of China. **(Director)**
- 2013-2016 Mantle source and tectonic setting of the Devonian Dundunshan magnesian andesites in the Beishan Fold Belt, NW China, funded by Chinese Postdoctoral Science Foundation Grant. **(Director)**
- 2011-2015 The Permian Mantle Plume and the related tectonic evolution and surface systems, funded by National Basic Research Program of China. **(Investigator)**
- 2012-2015 Ore genesis and tectonic setting of the Late Devonian Heishan Ni-Cu-(PGE) deposit in the western of Gansu Province, NW China, funded by the Natural Science Foundation of China. **(Investigator)**
- 2011-2013 Occurrence of PGE from the base metal sulfide and its controlling factors in the Jinchuan large Ni-Cu-(PGE) deposit, funded by the Natural Science Foundation of China. **(Investigator)**
- 2015-2017 Sr-Nd-Pb isotopes of the Cenozoic Baguio adakites in the Luzon Island, Philippines: implications for the subduction process of the South China Sea, funded by the Natural Science Foundation of China. **(Investigator)**

**PEER-REVIEWED PUBLICATIONS:**

- Xie, W.**, Song, X.-Y., Chen, L.-M., Deng, Y.-F., Zheng, W.-Q., Wang, Y.-S., Ba, D.-H., Yin, M.-H., Luan, Y., **2014**. Geochemistry Insights on the Genesis of the Subduction-related Heishan Magmatic Ni-Cu-(PGE) Deposit in Gansu, NW China, at the Southern Margin of the Central Asian Orogenic Belt. **Economic Geology** 109: 1563-1583.
- Xie, W.**, Xu, Y.-G., Chen, Y.-B., Luo, Z.-Y., Hong, L.-B., Ma, L., Ma, Q., Liu, H.-Q., **2016**. Petrogenesis and geodynamic implications of the Late Carboniferous felsic volcanics in the Bogda belt, Chinese Northern Tianshan. **Gondwana Research** 39, 165-179.
- Xie, W.**, Xu, Y.-G., Chen, Y.-B., Luo, Z.-Y., Hong, L.-B., Ma, L., Ma, Q., Liu, H.-Q., **2016**. High-alumina basalts from the Bogda Mountains suggest an arc setting for Chinese Northern Tianshan during the Late Carboniferous. **Lithos** 256-257, 165-181.
- Xie, W.**, Luo, Z.-Y., Xu, Y.-G., Chen, Y.-B., Hong, L.-B., Ma, L., Ma, Q., **2016**. Petrogenesis and geochemistry of the Late Carboniferous rear-arc (or back-arc) pillow basaltic lava in the Bogda Mountains, Chinese North Tianshan. **Lithos** 244, 30-42.
- Xie, W.**, Song, X.-Y., Deng, Y.-F., Wang, Y.-S., Ba, D.-H., Zheng, W.-Q., Li, X.-B., **2012**. Geochemistry and petrogenetic implications of a Late Devonian mafic-ultramafic intrusion at the southern margin of the Central Asian Orogenic Belt. **Lithos** 144-145: 209-230.
- Xie, W.**, Song, X.Y., Deng, Y.F., Chen, L.M., Zhang, X.Q., Zheng, W.Q., Wei, X., **2013**. Geology and olivine geochemistry of the Heishan Ni-Cu-(PGE) sulfide deposit, Gansu, NW China. **Acta Petrologica Sinica** 29: 3487-3502 (*in Chinese with English abstract*).
- Xie, W.**, Song, X., Nie, X., Cheng, S., **2011**. Features of the mantle source and tectonic setting of the Poshi Ni-Cu sulfide-bearing intrusion, Xinjiang, China. **Earth Science Frontiers** 18: 189-200 (*in Chinese with English abstract*).
- Song, X.-Y., **Xie, W.**, Deng, Y.-F., Crawford, A.J., Zheng, W.-Q., Zhou, G.-F., Deng, G., Cheng, S.-L., Li, J., **2011**. Slab break-off and the formation of Permian mafic-ultramafic intrusions in southern margin of Central Asian Orogenic Belt, Xinjiang, NW China. **Lithos** 127: 128-143.
- Song, X.-Y., Chen, L.-M., Deng, Y.-F., **Xie, W.**, **2013**. Syn-collisional tholeiitic magmatism induced by slab detachment at the southern margin of the Central Asian Orogenic Belt. **Journal of the Geological Society, London** 170: 941-950.
- He, H.-L., Yu, S.-Y., Song, X.-Y., Du, Z.-S., Dai, Z.-H., Zhou, T., **Xie, W.**, **2016**. Origin of nelsonite and Fe-Ti oxides ore of the Damiao anorthosite complex, NE China: evidence from trace element geochemistry of apatite, plagioclase, magnetite and ilmenite. **Ore Geology Reviews** 79, 367-381.
- Deng, Y.-F., Song, X.-Y., Chen, L.-M., Zhou, T., Pirajno, F., Yuan, F., **Xie, W.**, Zhang, D., **2013**. Geochemistry of the Huangshandong Ni-Cu deposit in northwestern

- China: Implications for the formation of magmatic sulfide mineralization in orogenic belts. **Ore Geology Reviews** 56: 181-198.
- Zhang, X.-Q., Song, X.-Y., Chen, L.-M., Yu, S.-Y., **Xie, W.**, Deng, Y.-F., Zhang, J.-F., Gui, S.-G., **2013**. Chalcophile element geochemistry of the Baima layered intrusion, Emeishan Large Igneous Province, SW China: implications for sulfur saturation history and genetic relationship with high-Ti basalts. **Contributions to Mineralogy and Petrology** 166: 193-209.
- Zhang, X.-Q., Song, X.-Y., Chen, L.-M., **Xie, W.**, Yu, S.-Y., Zheng, W.-Q., Deng, Y.-F., Zhang, J.-F., Gui, S.-G., **2012**. Fractional crystallization and the formation of thick Fe Ti V oxide layers in the Baima layered intrusion, SW China. **Ore Geology Reviews** 49: 96-108.
- Chen, L.-M., Yi, J.-N., Song, X.-Y., Yu, S.-Y., She, Y.-W., **Xie, W.**, Luan, Y., Xiang, J.-X., **2014**. Petrogenesis of the Heigutian Ti-V-magnetite ore-bearing layered intrusion, the inner zone of the Emeishan Large Igneous Province. **Acta Petrologica Sinica** 30: 1415-1431 (*in Chinese with English abstract*).
- Hong, L.-B., Zhang, Y.-H., Xu, Y.-G., Ren, Z.-Y., Yan, W, Ma, Q., Ma, L., **Xie, W.**, **2017**. Hydrous orthopyroxene-rich pyroxenite source of the Xinkailing high magnesium andesites, Western Liaoning: Implications for the subduction-modified lithospheric mantle and the destruction mechanism of the North China Craton. **Lithos** 282-283: 10-22.
- Deng, Y.-F., Song, X.-Y., Hollings, P., Chen, L.-M., Zhou, T., Yuan, F., **Xie, W.**, Zhang, D., Zhao, B., **2017**. Lithological and geochemical constraints on the magma conduit systems of the Huangshan Ni-Cu sulfide deposit, NW China. *Miner Deposita* DOI 10.1007/s00126-016-0703-7.

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**REFEREES:**

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